

Roller for the Thermomechanical Treatment of a Web-shaped Medium

ABSTRACT OF THE DISCLOSURE:

The present invention relates to a roller for the thermomechanical treatment of a web-shaped medium, said roller including: a roller body; axial bores for a thermal treatment fluid which are incorporated in said roller body near to an outer surface of the roller body and into which said thermal treatment fluid flows on an inflow side; inflow zones, formed on said inflow side in the upstream ends of said bores or in feed channels through which the thermal treatment fluid flows into the bores; and directing or guiding means provided in said inflow zones, which transfer a rotational movement of said roller onto the thermal treatment fluid, wherein said directing means at least substantially completely transfer said rotational movement onto the thermal treatment fluid and in this way suppress a relative channel swirl between the bores and the thermal treatment fluid, while still in the inflow zones.